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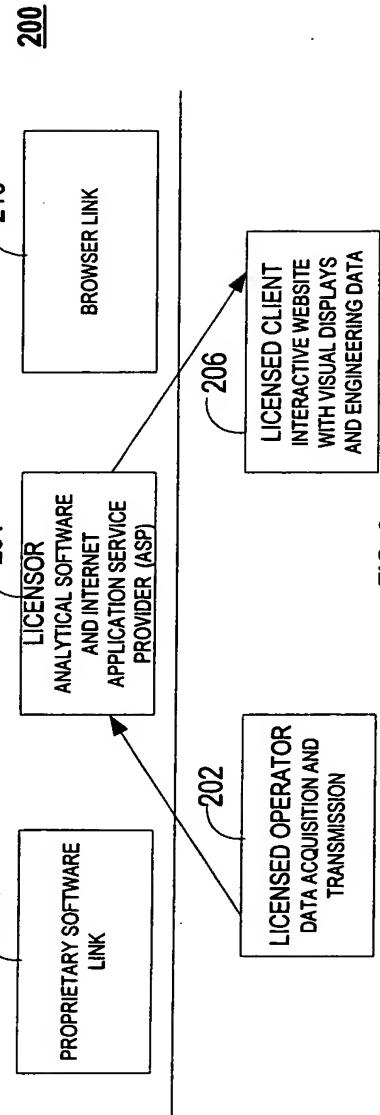
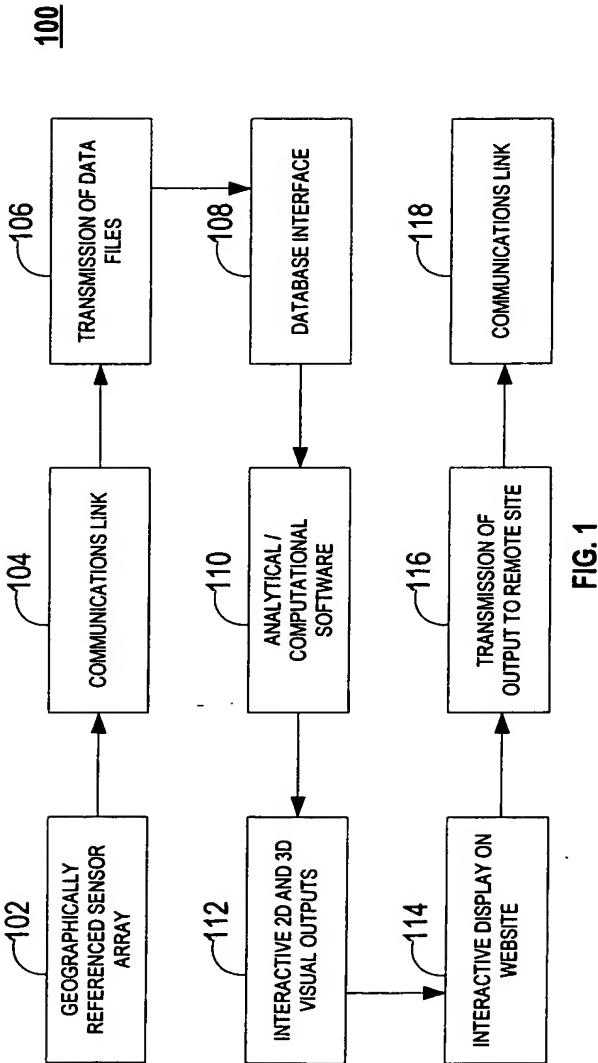
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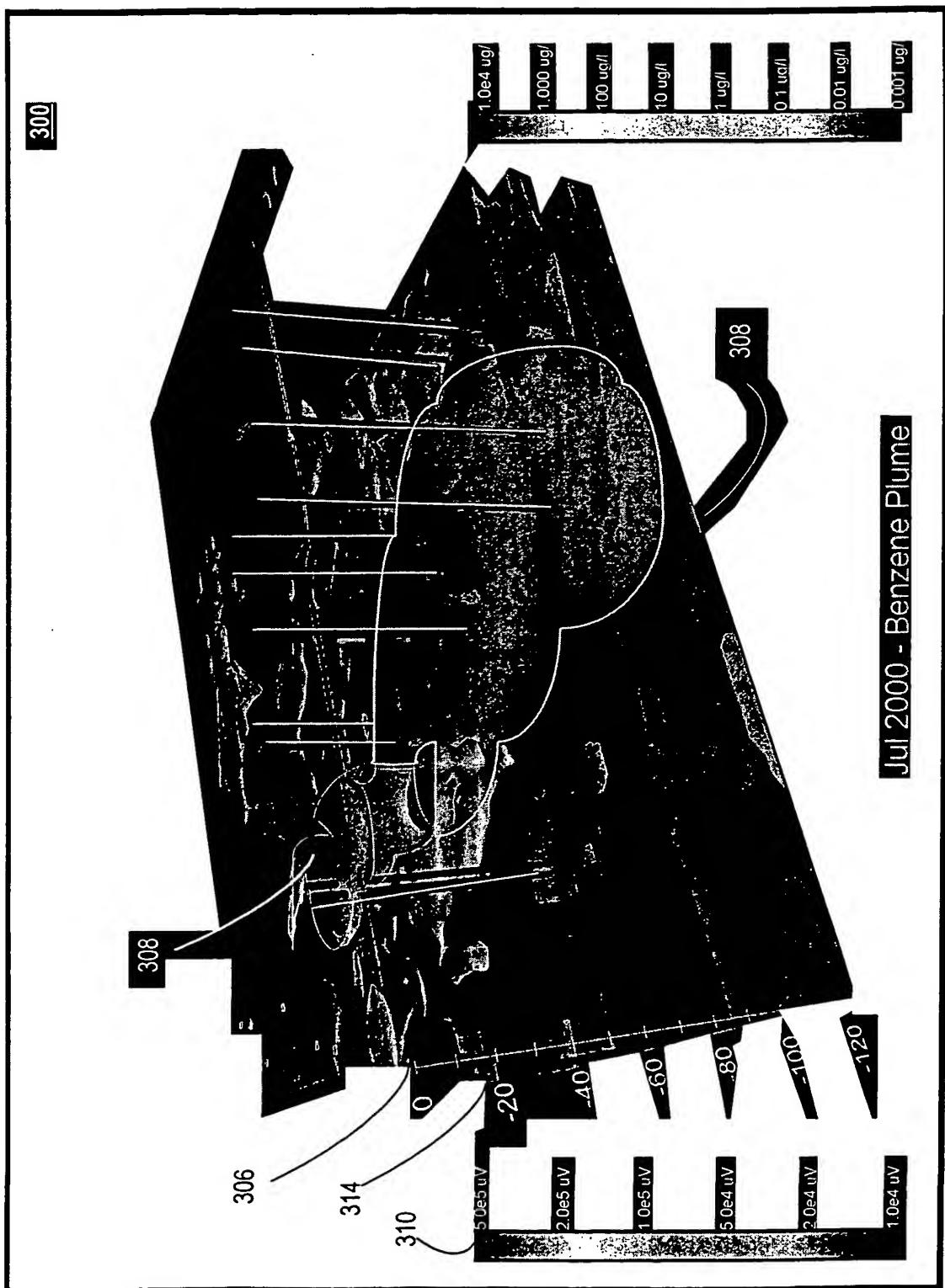
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U.S. Patent Application No. 10/666,558
Inventor: John H. SOHL, III et al.
Title: ENHANCED SUBSURFACE SCANNING SYST.
METHOD AND COMPUTER PROGRAM PRODUC
Attorney Docket No.: 36507-193188
Sheet 3 of 20

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ENHANCED
MIP PROBE

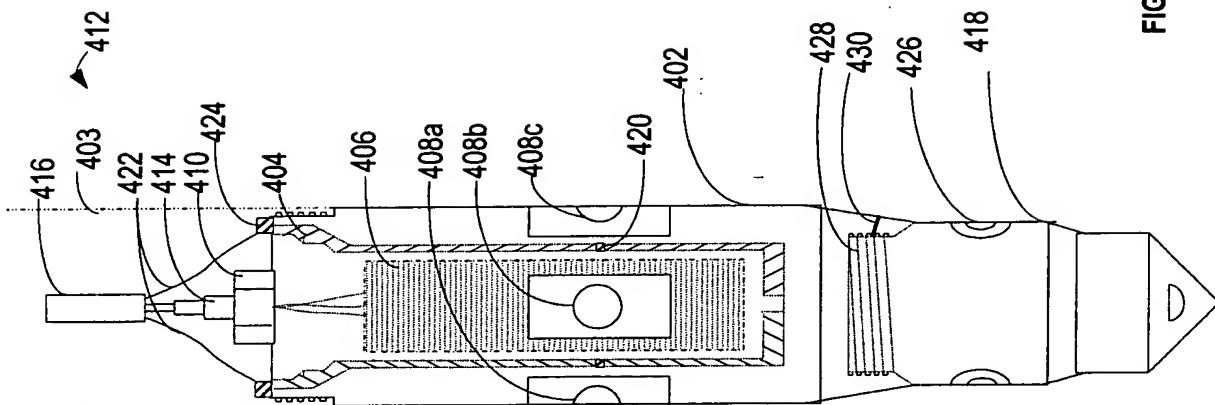
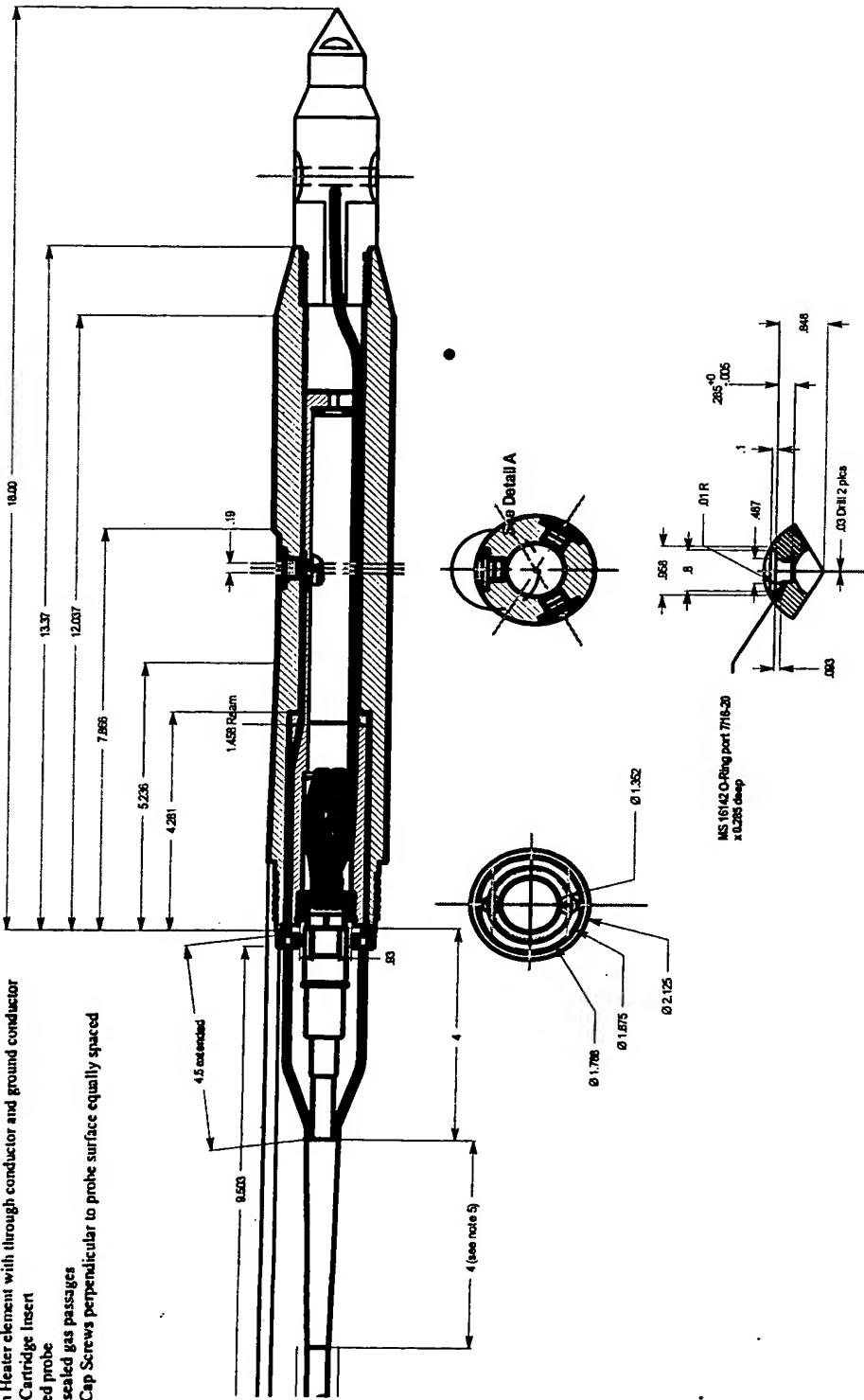


FIG. 4A

440

Notes:

1. SEACON LSG-6-B(-1)P bulkhead connector
2. SEACON RMG-6-FS inline Connector (waterblocked)
3. Waterblocked breakout splice (Scrimps)
4. Length of Nylon tube breakout to be 0.5 in. longer than the length of the RMG breakout. Use the face of the RMG connector and the furthest extent of the shortest Nylon tube as datum points
5. Length of breakout splice to be as short as possible
6. Custom Heater element with through conductor and ground conductor
7. Heater Cartridge Insert
8. Modified probe
9. O-ring sealed gas passages
10. 4 # 10 Cap Screws perpendicular to probe surface equally spaced



Detail A

FIG. 'B

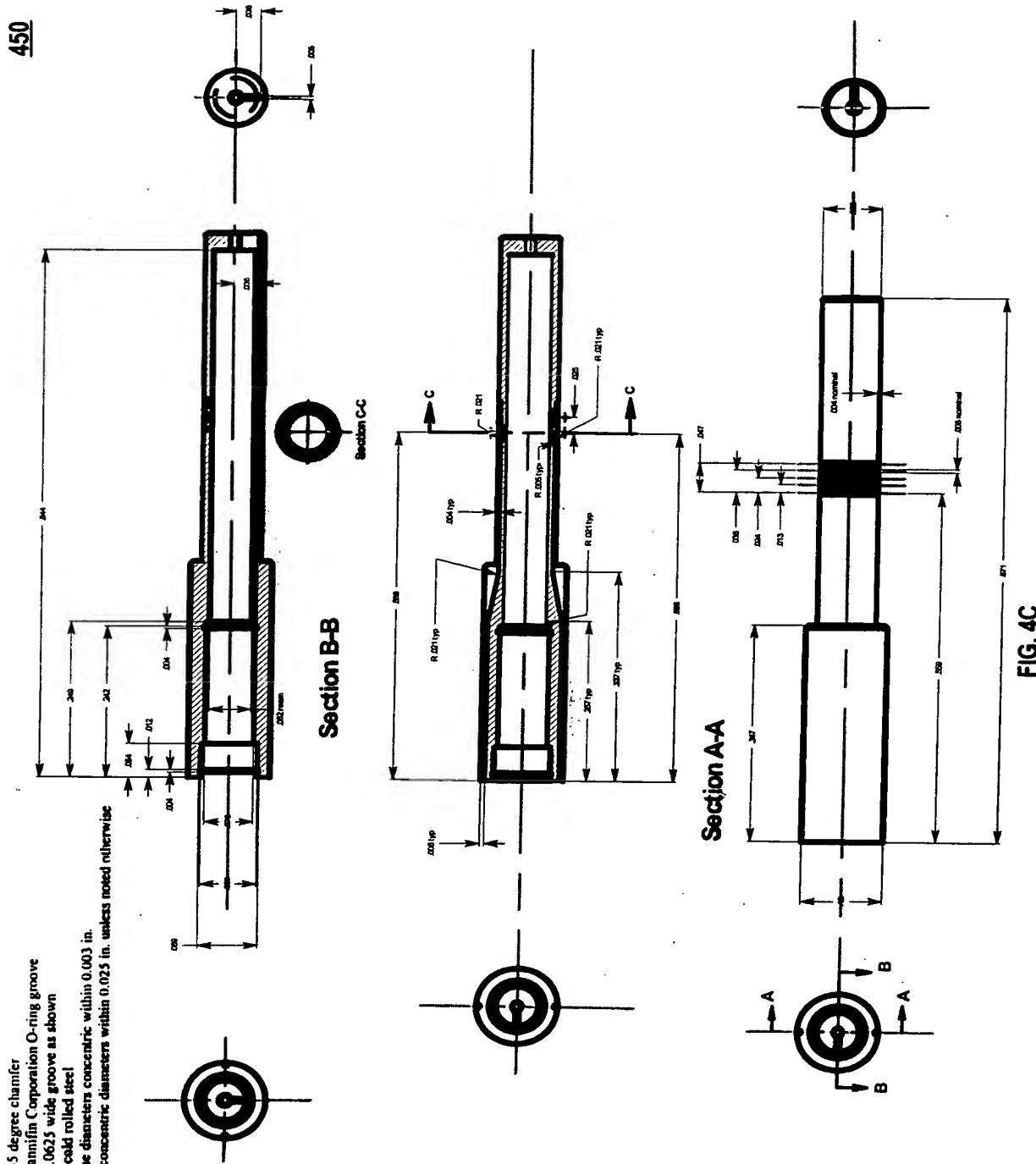


FIG. 4C

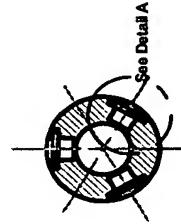
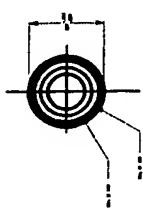
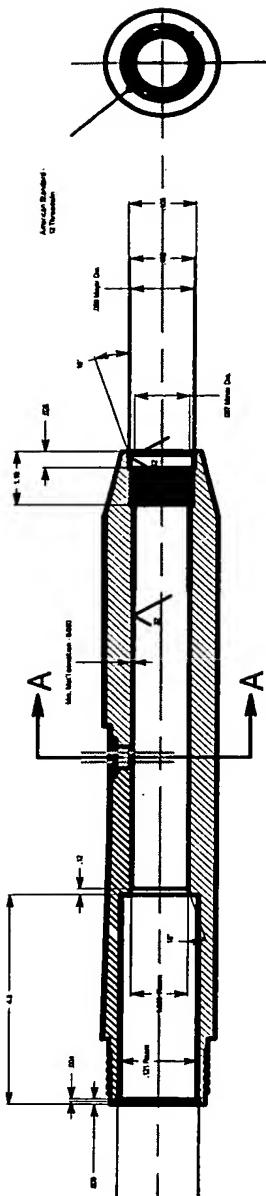
Noticias

1. 0.060 x 45 degree chamfer
2. Parker Hannifin Corporation O-ring groove
3. Broach 0.0625 wide groove as shown
4. Material cold rolled steel
5. Hold all concentric diameters within 0.003 in.
6. Hold all concentric diameters within 0.025 in. unless noted otherwise

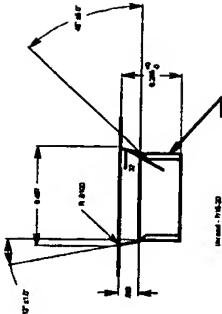
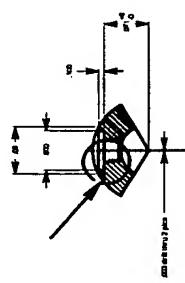
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Notes:

1. Match sample thread form
2. Smallty W71-150 snap ring
3. Material-cold rolled steel
4. Break all edges to 0.030 R min.
5. Hold these diameters concentric within 0.003 in. unless noted otherwise
6. Hold all concentric diameters within 0.025 in. unless noted otherwise



Detail A



Detail B

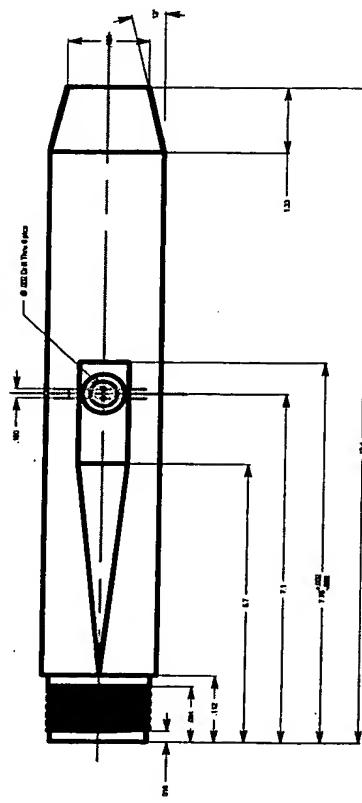


FIG. 4D

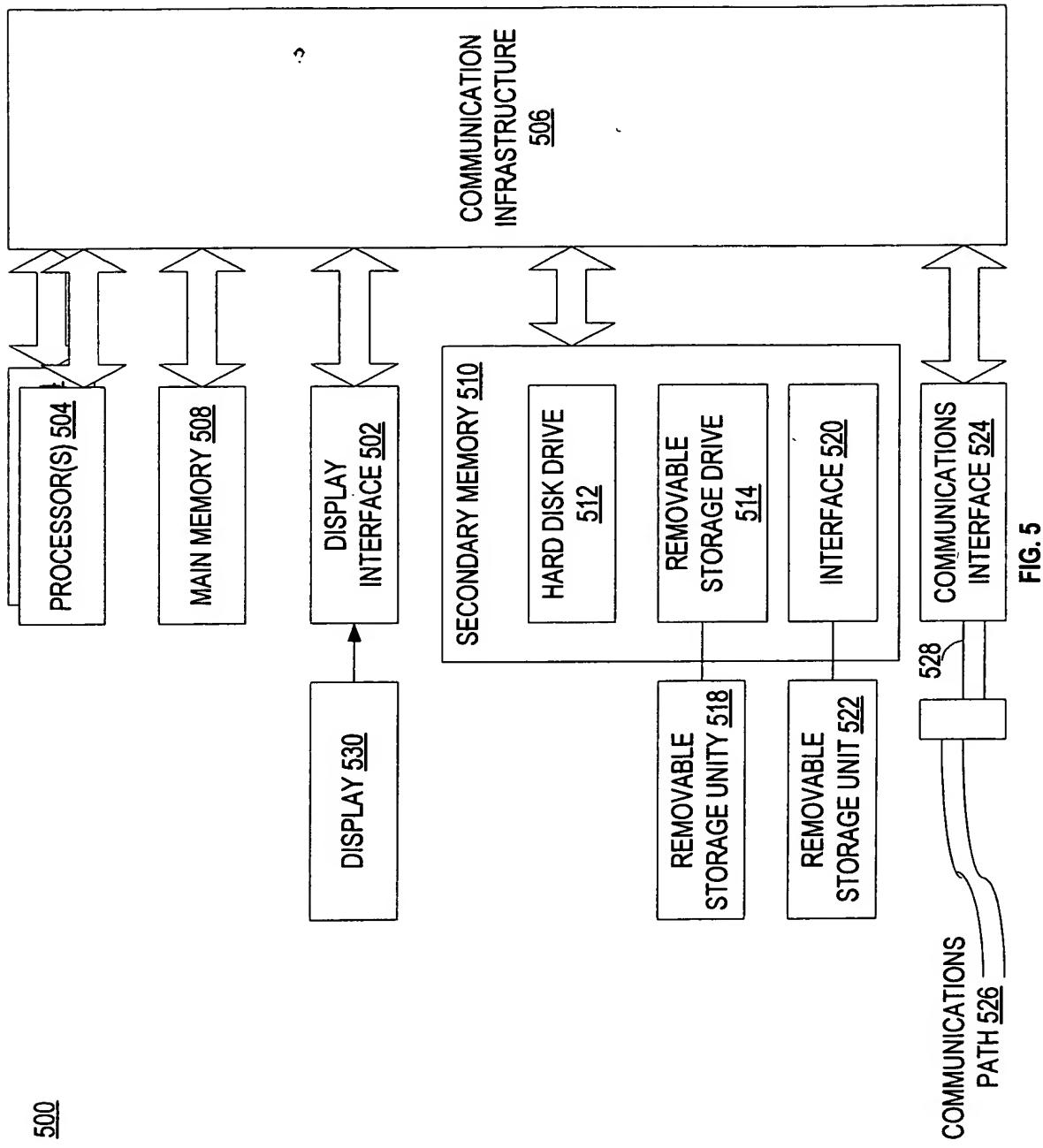


FIG. 5

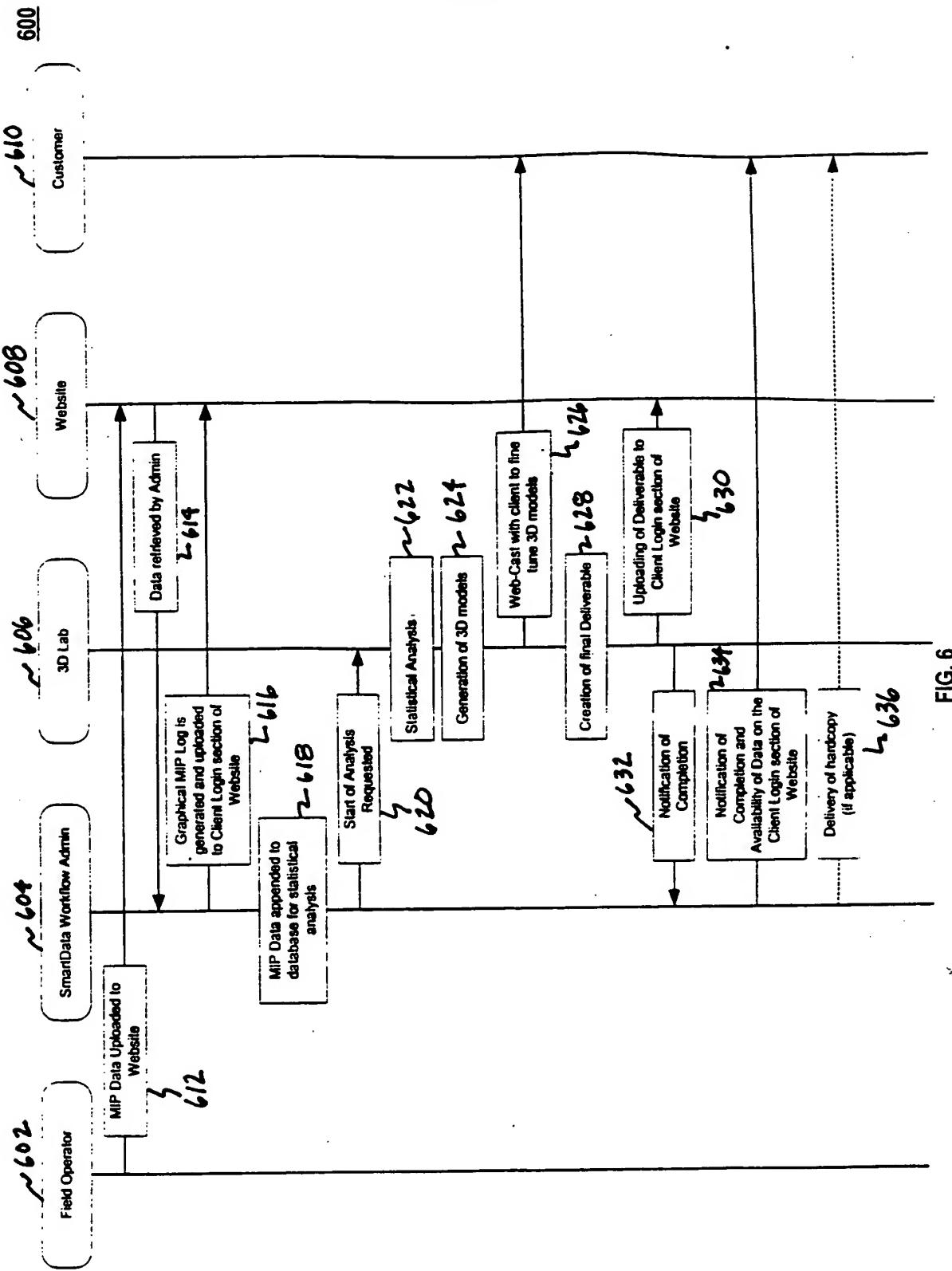


FIG. 6

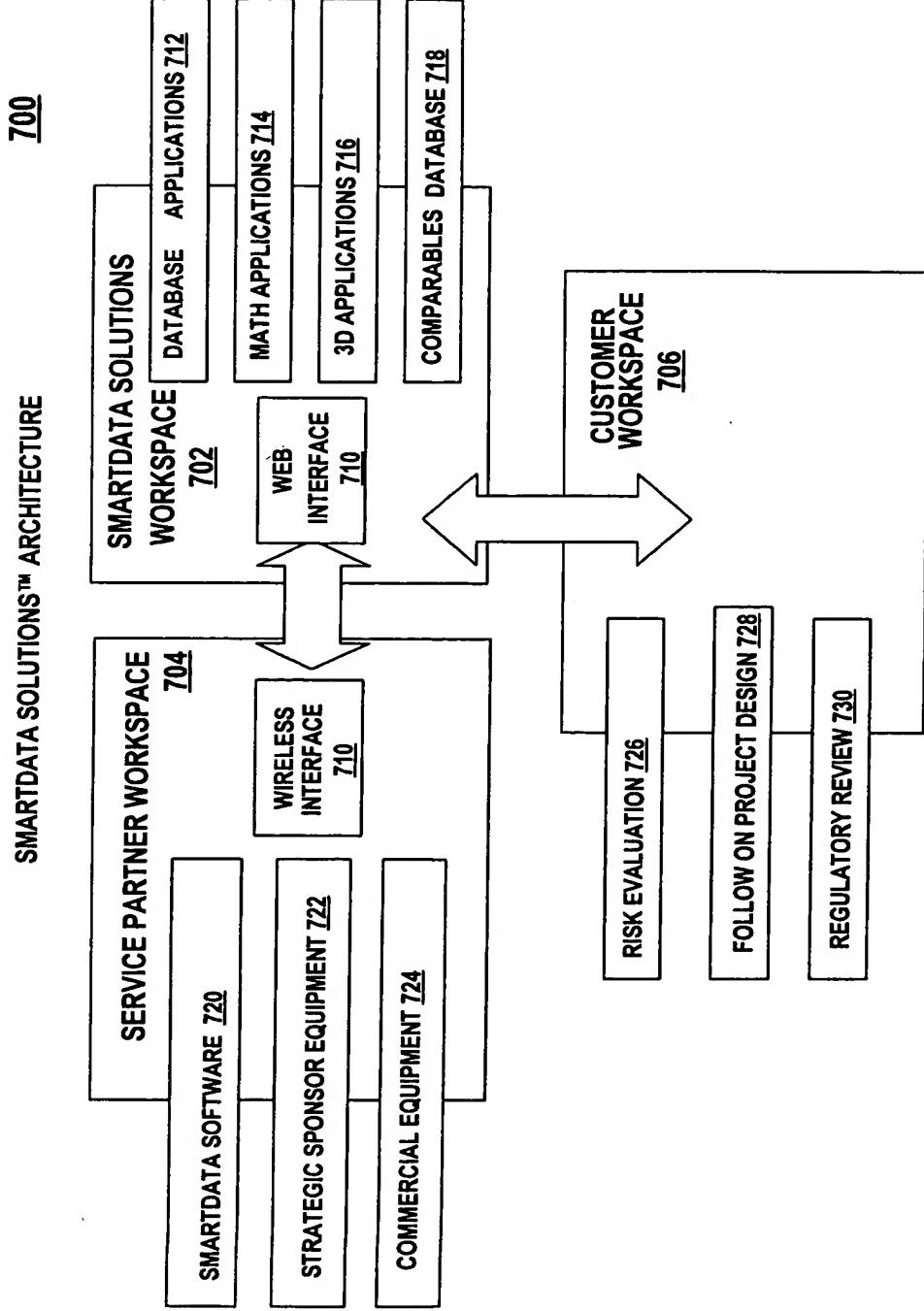


FIG. 7

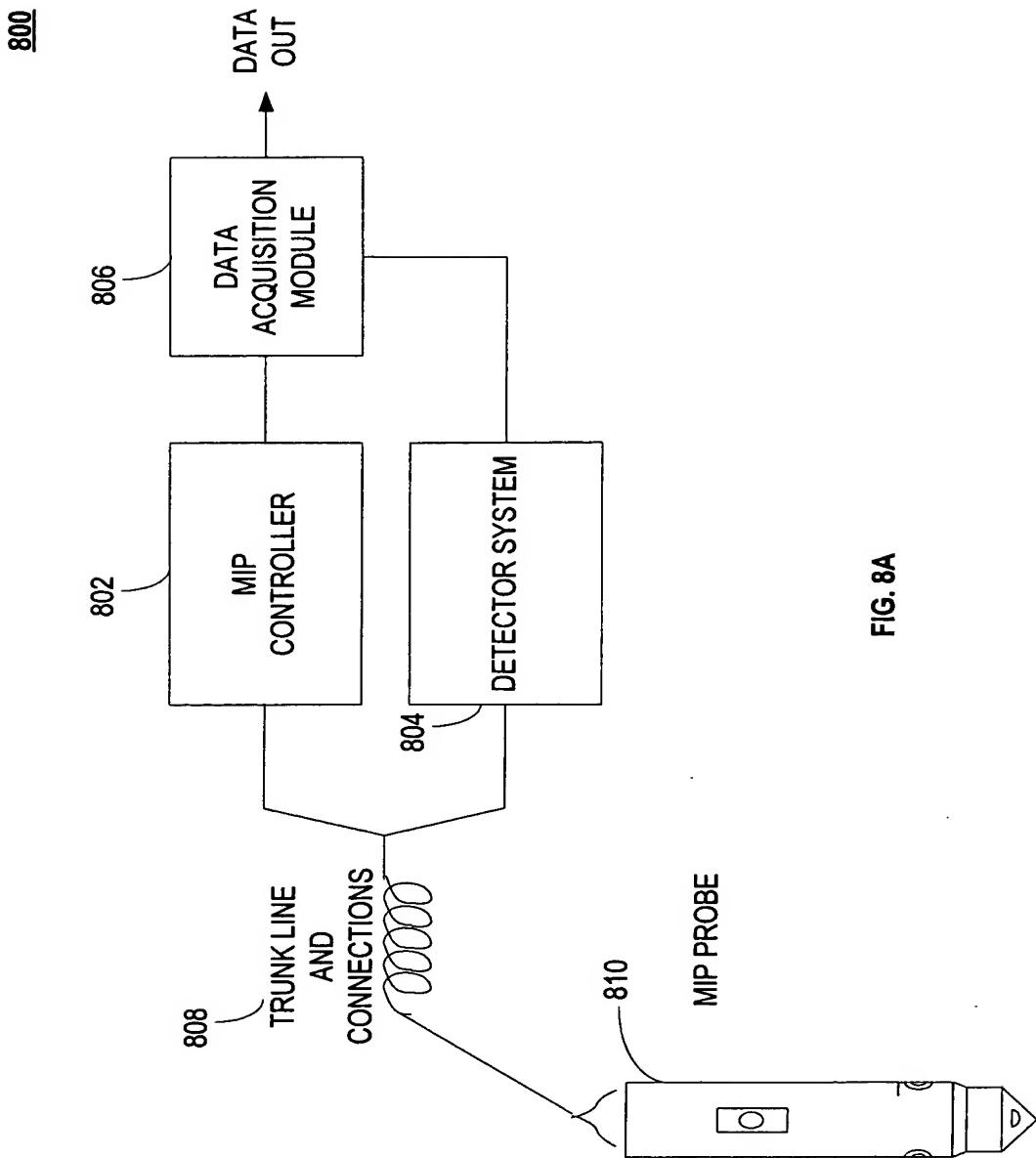


FIG. 8A

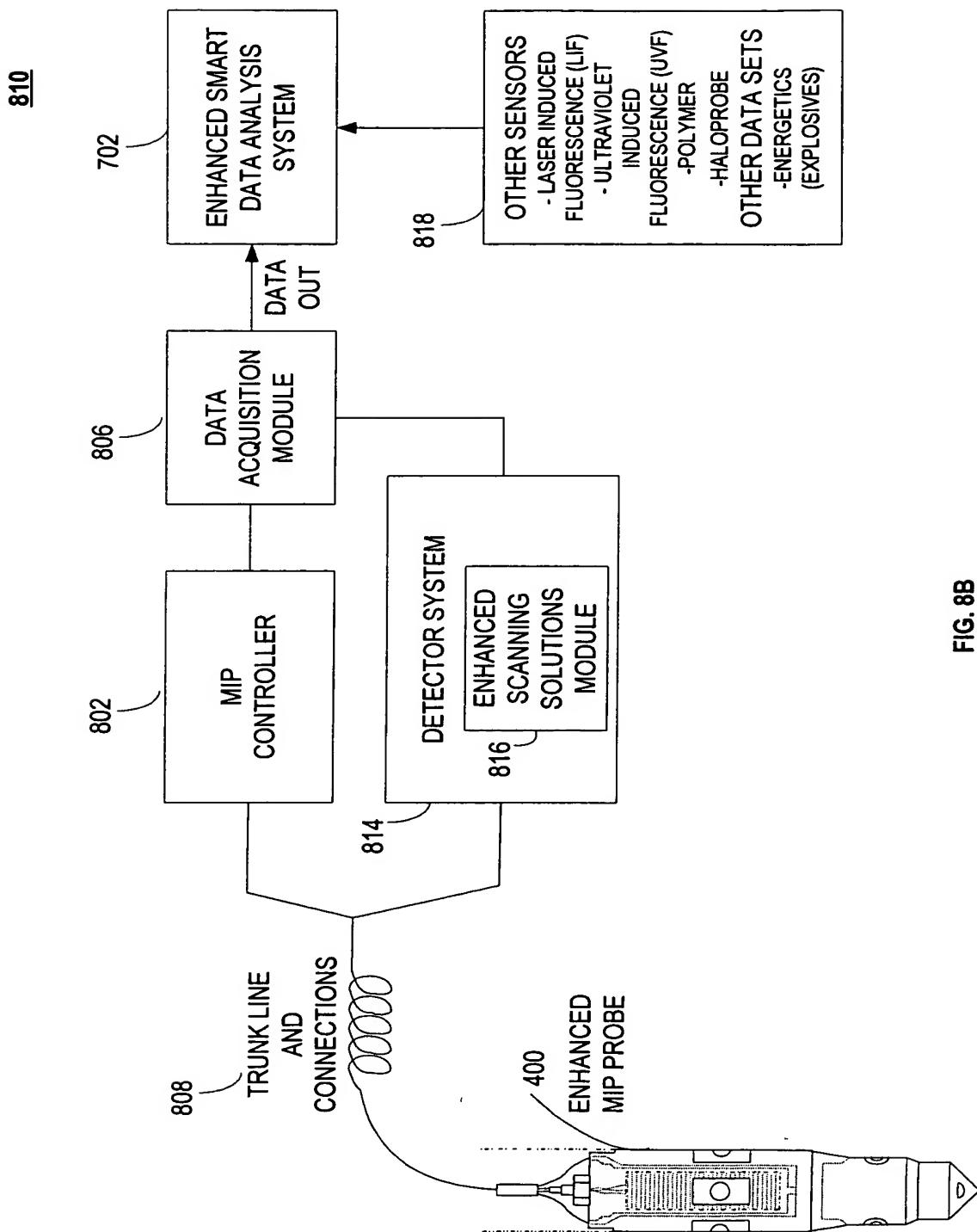


FIG. 8B

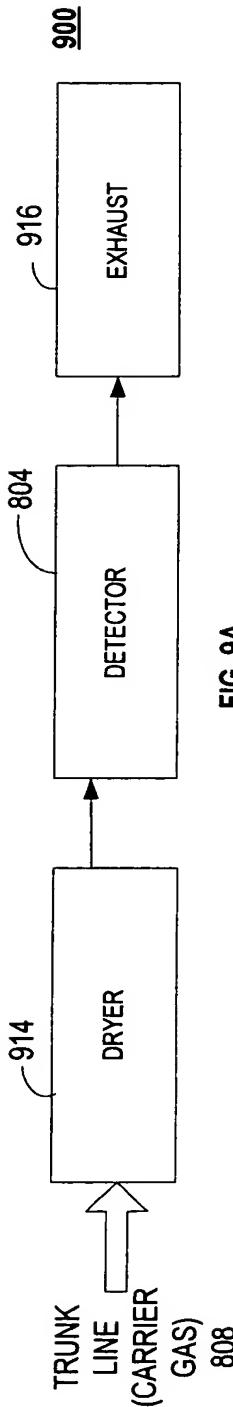


FIG. 9A

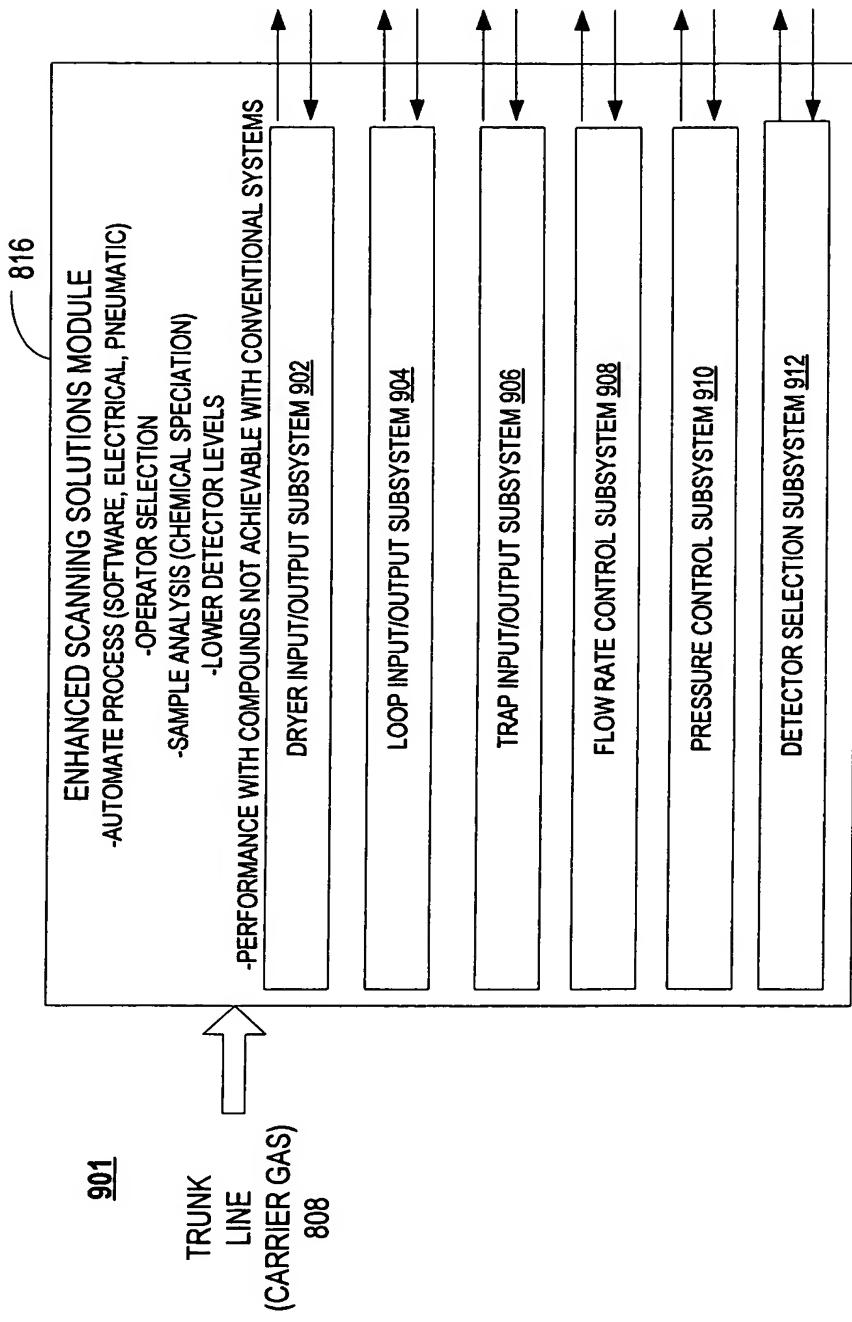


FIG. 9B

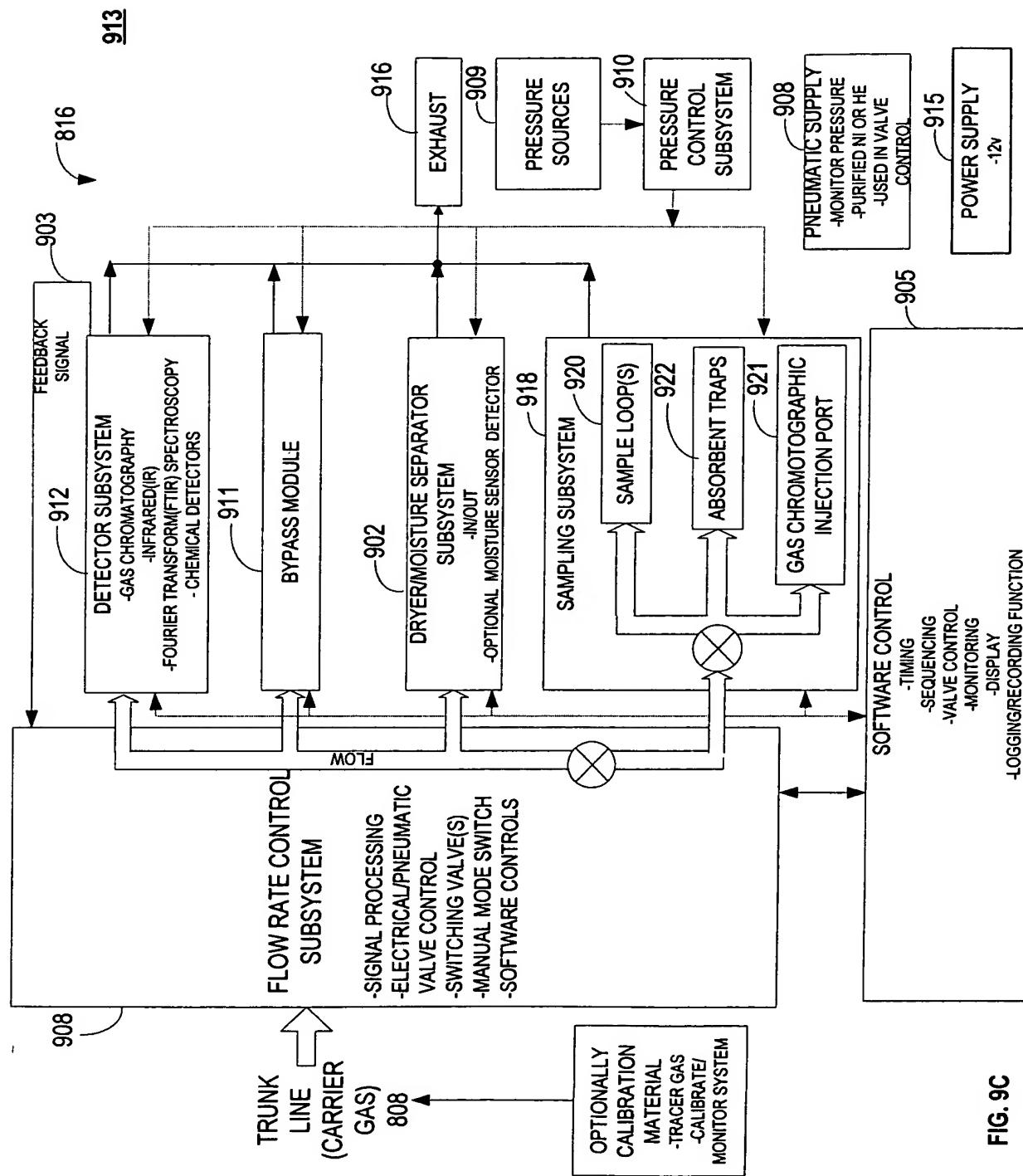


FIG. 9C

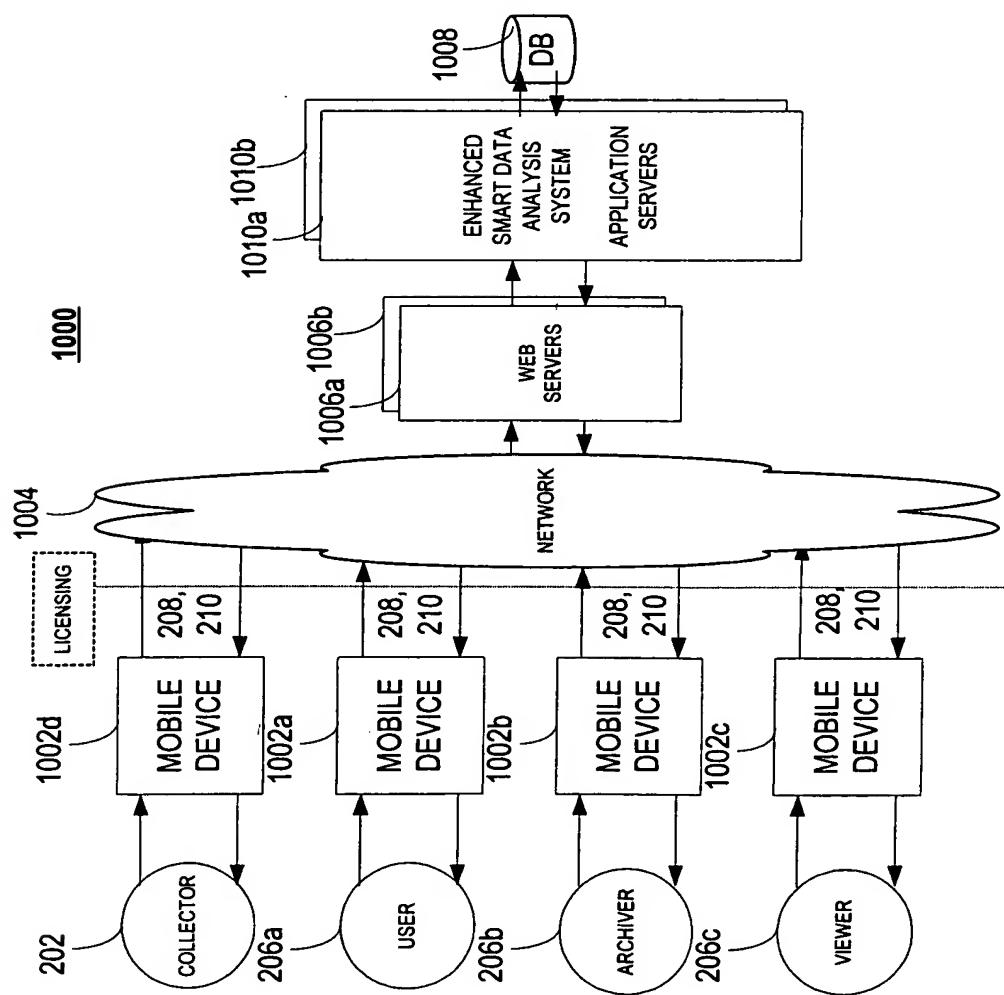
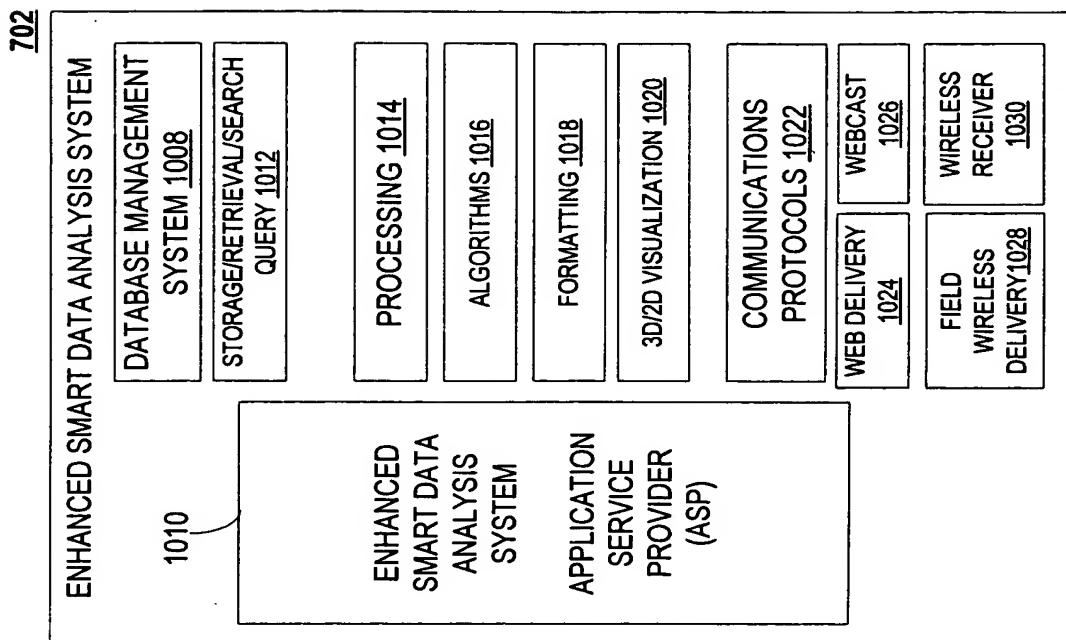


FIG. 10B

FIG. 10A

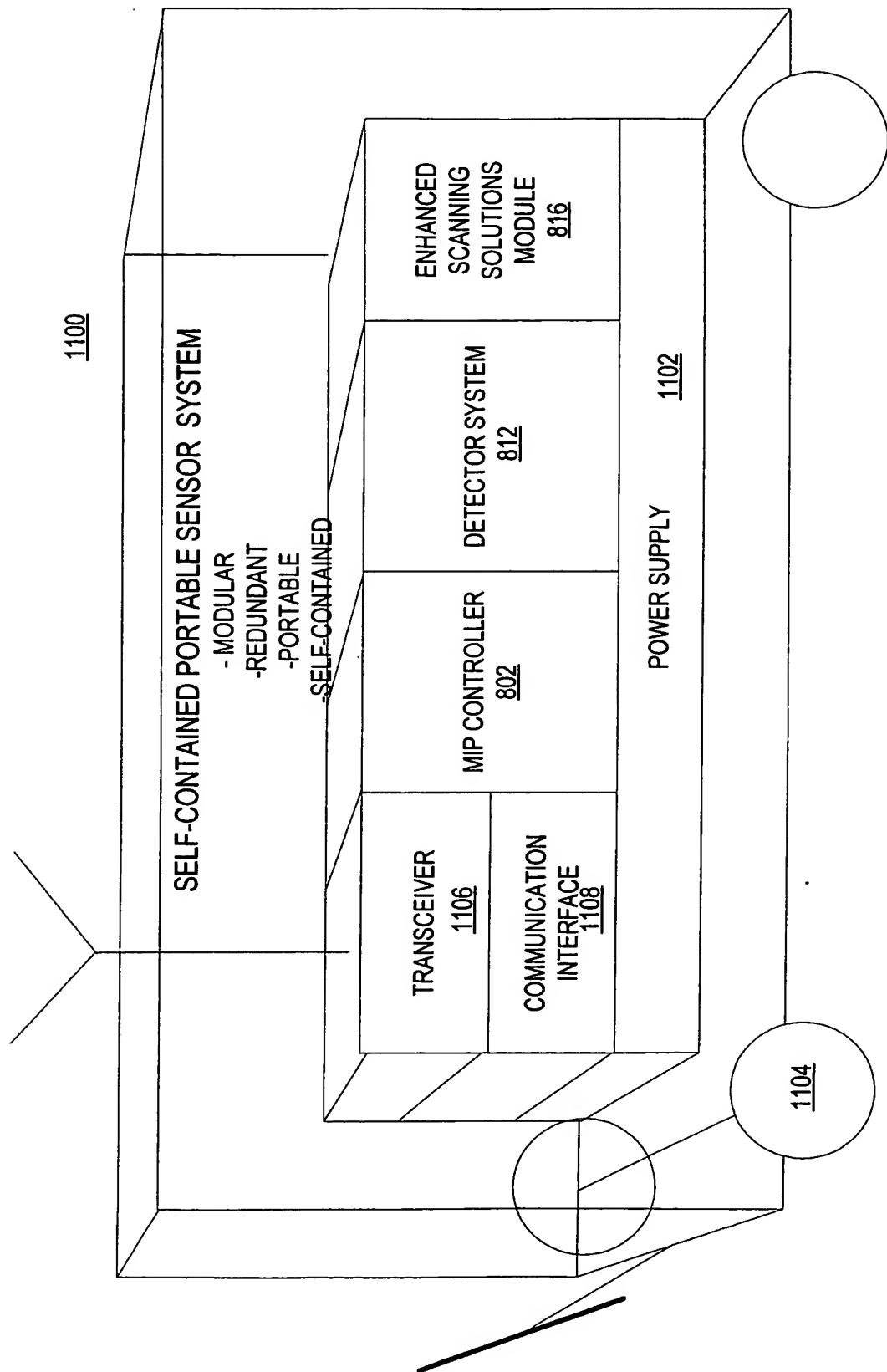
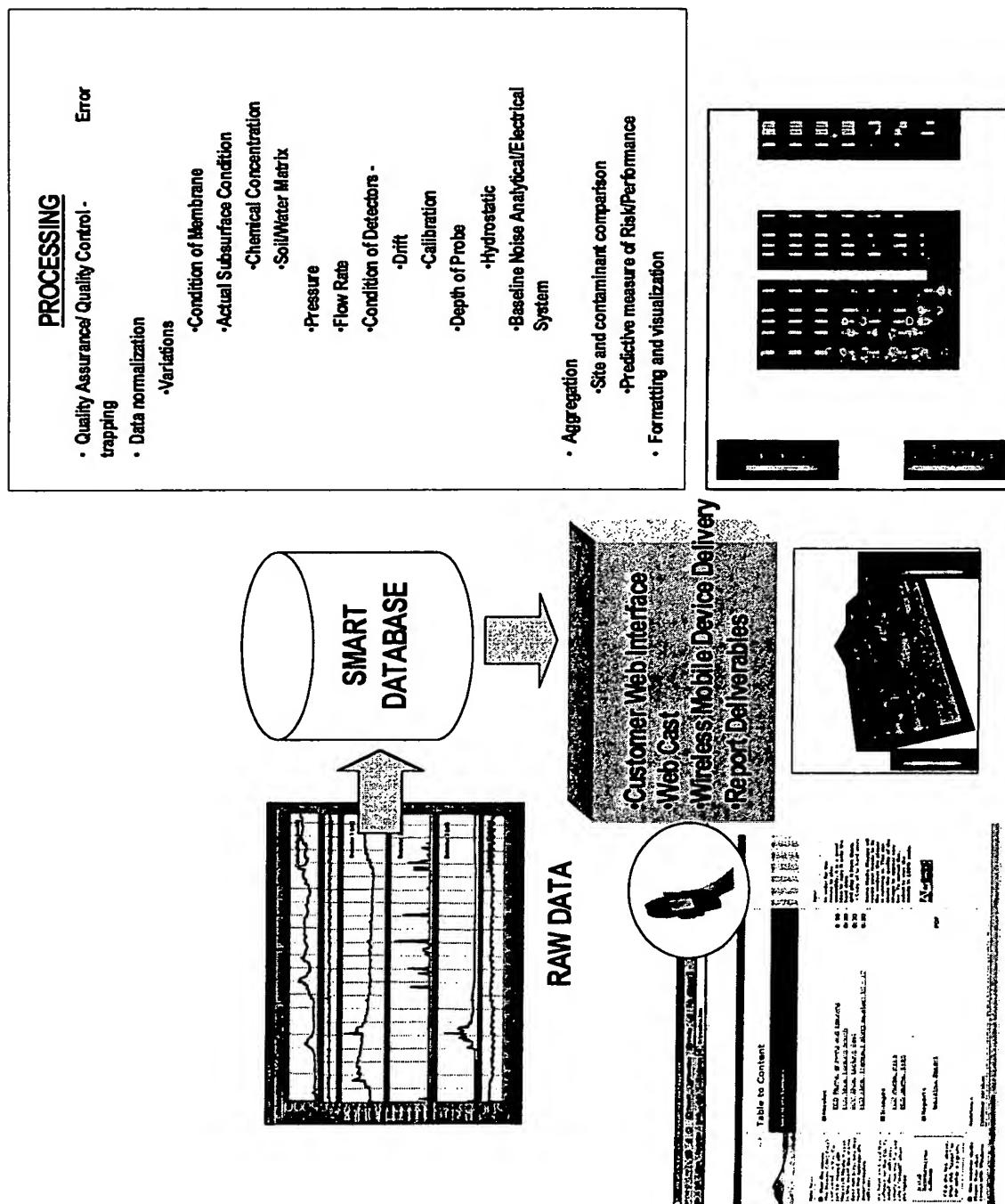


FIG. 11



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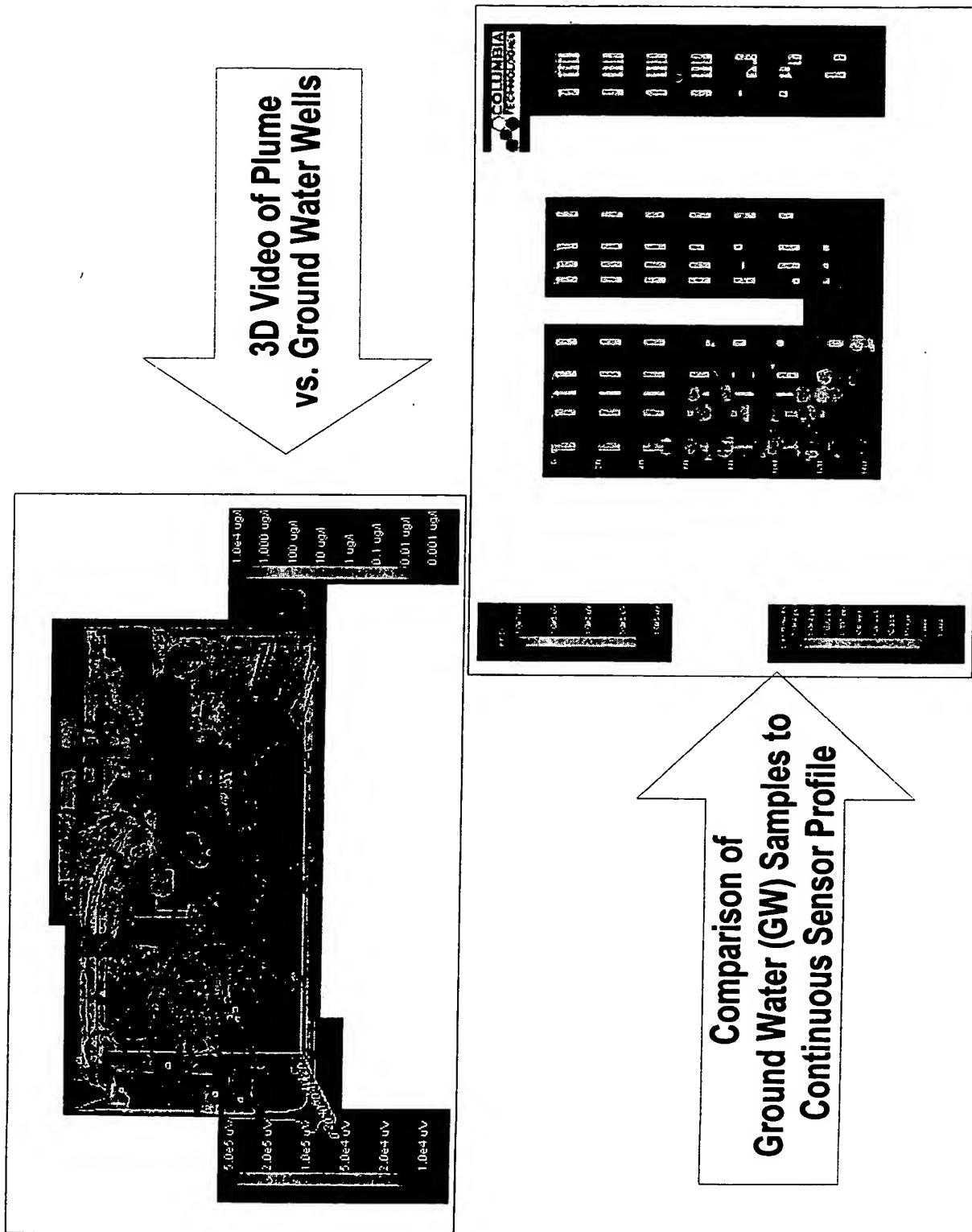


FIG. 12B

U.S. Patent Application No. 10/666,558
Inventor: John H. SOHL, III et al.
Title: ENHANCED SUBSURFACE SCANNING SYSTEM,
METHOD AND COMPUTER PROGRAM PRODUCT
Attorney Docket No.: 36507-193188
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FIG. 12C

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Manufacturing Facility



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Manufacturing Facility
Savanna, GA

Project Dates

Started: 8/12/2002

Completed: 8/21/2002

Status: Completed

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Resource

FIG. 12D

U.S. Patent Application No. 10/666,558

Inventor: John H. SOHL, III et al.

Title: ENHANCED SUBSURFACE SCANNING SYSTEM,
METHOD AND COMPUTER PROGRAM PRODUCT

Attorney Docket No.: 36507-193188

Sheet 20 of 20

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FIG. 12E